

VINNAPAS® EP 1

VAE Binder with High Water Resistance for Paper and Packaging Adhesives

VINNAPAS® EP 1 is a vinyl acetate-ethylene (VAE) copolymer ideally suited for the formulation of high-performance paper and packaging adhesives with excellent water resistance.

Multipurpose

This product is designed for paper and packaging adhesives with possible water contact, such as packaging for cooled bottles. The dispersion's high level of adhesion and cohesion is comparable with other in-class VINNAPAS® products, it adheres strongly to various plastic surfaces and has a permanently flexible glue line. VINNAPAS® EP 1 can be used as an adhesive for paper packaging and PVC furniture foil. It can be applied readily by roller/ wheel and displays excellent cleanability.

This is a multipurpose product that is also compatible with PUD.

No External Plasticizer Needed

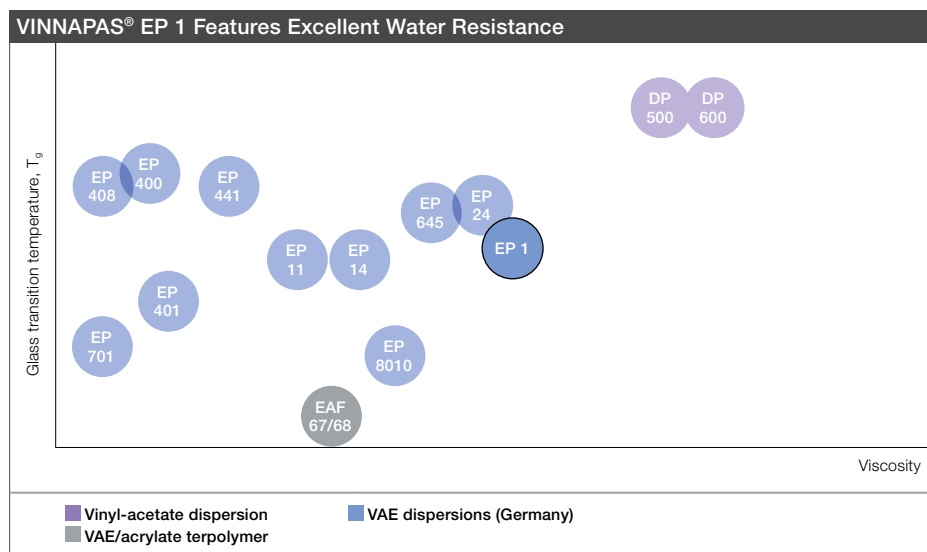
VINNAPAS® EP 1 reduces recipe complexity and enables better asset utilization and precision. Thanks to its ethylene content, it is internally plasticized and therefore does not require external plasticizers.

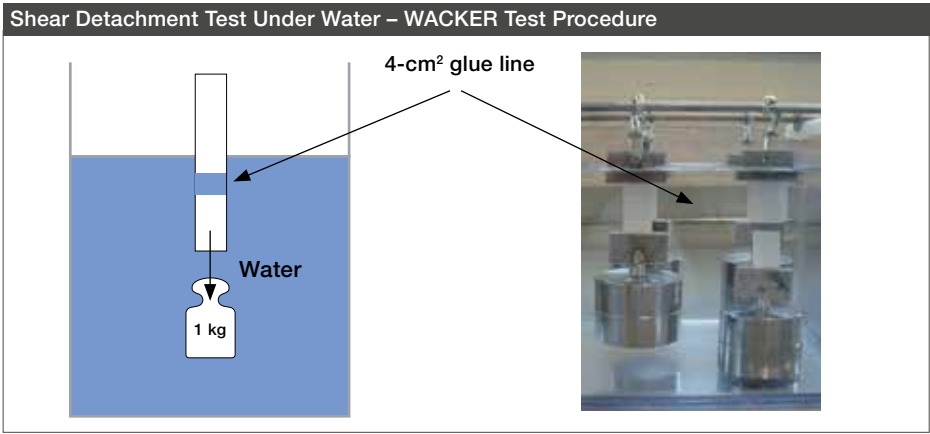
VINNAPAS® EP 1 Contains Preservative without Labeling Requirements

Aqueous systems promote the growth of microorganisms (bacteria, fungi, etc.). These lower the product quality, reduce the shelf life and can even put the health of the people handling them at risk. Biocide systems minimize the risk of critical microorganisms growing or adapting. Biostability is essential for all kinds of dispersions.

The new Regulation (EU) 2018/1480 impacts the labeling of aqueous systems in the whole industry with new thresholds for biocides.

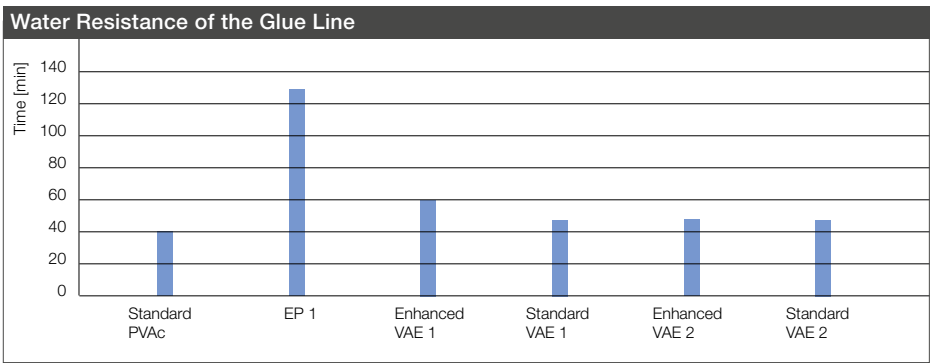
VINNAPAS® EP 1 is adequately preserved against microbial attack during transportation and storage in the original, unopened containers, without any labeling requirements (conforms to the new Regulation (EU) 2018/1480).



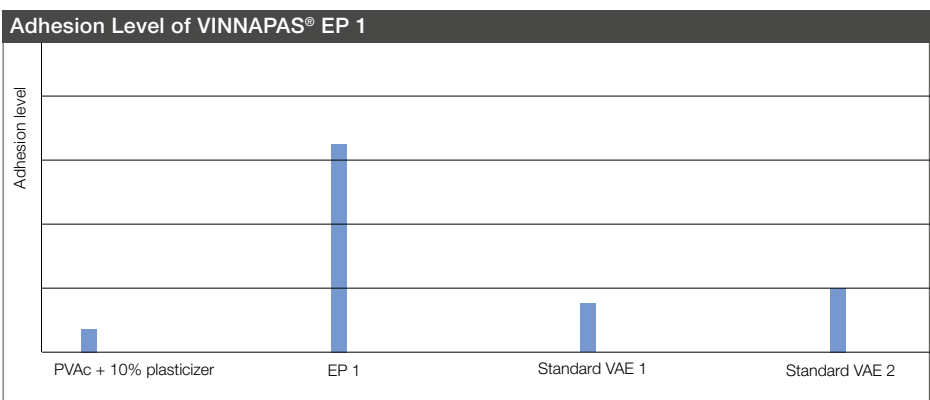


Test Procedure for Water Resistance (WACKER's Own Method)

Two strips of reinforced paper are glued together with a 4-cm² glue line (drying time > 24 h). The test specimens are immersed in water with a 1-kg weight. The time it takes for the glue line to break is determined.



With VINNAPAS® EP 1, the glue line resists almost three times longer than with standard VAEs.



Adhesion level of VINNAPAS® EP 1 compared to PVAc and other standard VAEs on polyester as an example.